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## **1<sup>st</sup> Quarter Emergency Drill at SERF**

# **Controller Briefing**

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Paul Grano

EMD-TEMP-034

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# Today's Agenda

- Purpose
- Drill Control Team & Responsibilities
- Player Performance Observations
- Communications
- Scenario Information
- Design Guidelines
- Pre-approved Simulations
- Termination Conditions
- Safety & Security
- Schedule of Events
- MSEL Review

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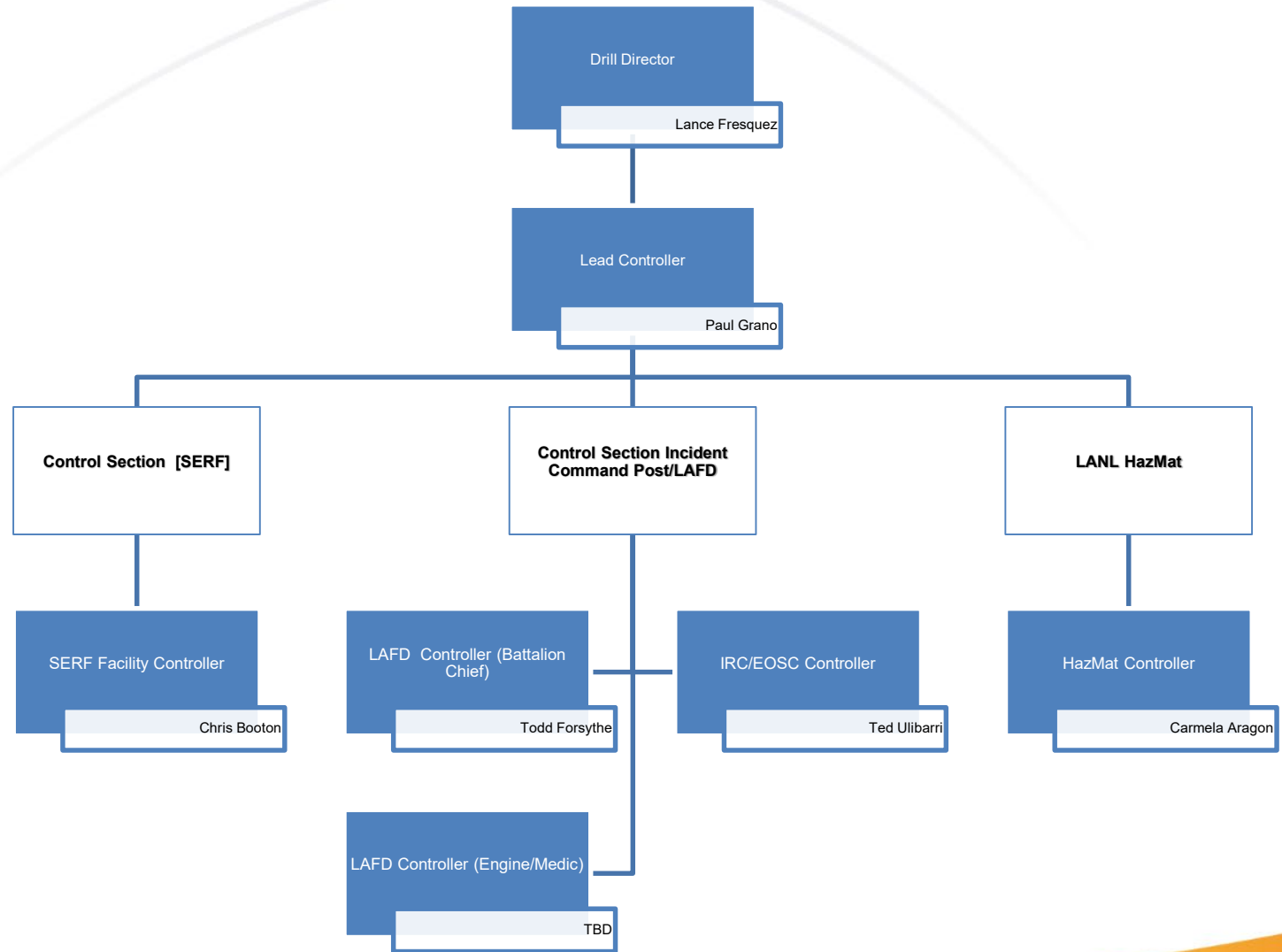
# Purpose

- To provide you the information needed to ensure safety and security are not compromised during the drill and that you understand your roles and responsibilities.
- Communicate general drill information and conduct expectations.
- Outline control roles and responsibilities.
- Provide safety and security guidance to ensure unsafe acts or security violations do not occur during drill.

***Safety and security is our top priority!***

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# Drill Control Organization



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# Drill Control Team Responsibilities

## Drill Director (DD):

- Responsible for the overall conduct, coordination, safety, and continuity of drill
- Starts and terminates the drill
- Ensures the drill is conducted per the plan
- Works closely with the Lead Controller to ensure the smooth execution of drill activities
- Approves contingency messages.

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# Drill Control Team Responsibilities

## Lead Controller:

- Coordinates the flow of the drill and ensures activities proceed as scheduled
- Ensures timeline of events and tracks the Master Scenario Events List (MSEL)
- Coordinates closely with the DD to ensure safe conduct of the drill

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# Drill Control Team Responsibilities

## Controller:

- Controllers plan and manage drill play
- Direct the pace of the drill
- Provide key data to players, and may prompt or initiate certain player actions to ensure continuity.
- Issue drill material to players as required (e.g. Inject Messages)
- Monitor the drill timeline

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# Drill Control Team Responsibilities

## Controller (continued):

- Ensure that players use the Communication Directory located in each section.
- Report to the Lead Controller the time that significant events occurred.
- Acquire prior approval from the DD prior to providing injects **and** injecting contingency or “on the fly” messages.
- Supervise the safety of all drill participants.
- Stop the drill, if an unsafe act is about to or has already occurred.

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# Player Responsibilities

## Players:

- Players have an active role in responding to scenario events by performing their regular roles and responsibilities during the drill.
- Players should not have prior knowledge of the scenario.
- Players will respond as if drill events are real.
- Players will comply with their current standard response procedures and checklists when responding to drill events.
- Players are to speak out loud when taking action to make Controllers aware of their actions.
- Players should use all required equipment, including personal protection equipment, during the drill unless granted a specific exemption by the Drill Director.

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# Drill Control Team Responsibilities

## Observers:

- Individuals are involved in an drill solely to observe the activities for official and/or educational reasons.
- Must not interfere with or become involved in any activities
  - Can issue a Drill Freeze
- Must not contribute information or opinions to players in any fashion
- Must not contribute or participate in the evaluation process

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# Drill Coaching

- Coaching, discussion, and training opportunities are encouraged during emergency drills.
- Drills should be a learning environment, and questions from Players on proper response may be addressed in real-time during the drill.
- Controllers should record when coaching occurs for incorporation in the drill summary report.

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# Players Refusing to Participate

- If a participant declines to participate in a drill, the controller should try to gain voluntary compliance by explaining the importance of their participation and ask why they are refusing/do not wish to participate.
  - If the person decides to participate then no further action is needed.
  - If the person still refuses to participate, the controller should advise the drill director as soon as possible.
  - The drill director may decide to exempt the individual from participation (e.g., person is feeling sick and needs to go home) and will notify the controller of the decision.
  - If the drill director decides that the person must still participate in the drill, this will be communicated to the controller and the controller should politely ask for their name and Z number.
  - If the person continues to refuse then let them go and note the location of the refusal.
- The lack of willingness to participate will be discussed during the hotwash and the drill director will notify the appropriate Responsible Line Manager (if able to be identified) and the appropriate Facility Operations Director (FOD).

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# Play Area Map / Control Team Directory



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# Play Area Map / Control Team Directory

- Drill Director (Lance Fresquez)-SERF/Roaming
- Lead Controller (Paul Grano)-SERF/Roaming
- SERF Controller (Chris Booton)-SERF/Release site
- IRC/EOSC Controller (Ted Ulibarri)-EOSC/ICP
- LAFD Controllers (Todd Forsythe/TBD)-FS #1/ICP, Engine/Medic
- LANL HazMat Controller (Carmella Aragon)-TA-64/ICP

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# Identification of Drill Participants

- All members of the drill organization will wear navy blue vests with title/position listed on the lapel and back of the vest
- Observers will wear yellow vests
- Employees exempt from drill will wear tan vests

***NOTE:*** *If an employee has not made previous arrangements to be exempted, they are considered a player. Exemptions must be approved by their management.*

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# Communications

- Notify the Drill Director via radio when:
  - Expected actions are observed
  - Injects, messages, or data supplements are delivered
- “On the Fly” messages/injects must be approved by the Drill Director prior to dissemination.

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# Communications – Significant Events

- What is a Significant Event?
  - Critical actions the drill design team are tracking to measure response actions against requirements, plans, and/or procedures.
- Examples of significant events to report to the Drill Director:
  - Notification times such as 911, EOSC, and Facility Operations Centers
  - Time facility protective actions were issued.
  - Time responders arrive on scene.
  - Time responders make patient contact.
  - Time of categorization/classification.
  - Time protective actions were issued by the EOSC.
  - Time accountability was obtained.
- Controllers should review the significant events for their venues to ensure critical actions are reported to the DD during the drill.

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# Communications (cont.)



"Drill Director, this is Controller Forsythe.  
Message 4 delivered at 1004."

"Controller Forsythe, this is the Drill Director. I understand that  
Message 4 was delivered at 1004."

"Drill Director, that is correct."



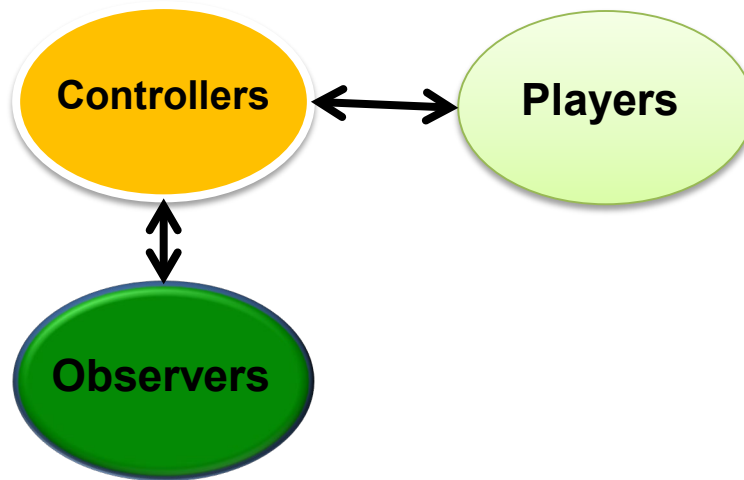
Utilize Channel 1 – Exercise for control radio network

*"Clear Text" only! No 10-Codes.*

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# Communication Among Exercise Participants



Observers direct all communication to Controllers

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# Communications (cont.)

- Ensure players utilize current phone numbers outlined in plans/procedures and/or the **Players Communications Directory**.
  - (505) 661-3437 is used in place of 9-1-1
- Ensure players state “**This is a drill Message**” before and after all communications – radio, phone, pager, PA announcements, etc.
  - It is unnecessary for the control organization to use “This is a drill message”
- The “Emergency Channel” shall be reserved for real emergency use only.

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# Player Performance Observations

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# Player Performance Observations

## Controller's Responsibility:

- Review the Drill Plan and drill objectives prior to the drill
- Review plans, procedures, and checklists
- Attend pre/post-drill briefings
- Select accessible location to observe performance
- Observe and document the players' performance based on objectives
  - You can ask players to clarify their actions
- Observe the control organization's performance

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# Player Performance Observations (cont.)

## Controller's Responsibilities:

- Direct players to address all questions and/or comments to controllers
- Stop the drill, if an unsafe act is about to or has already occurred
- Document how players performed against drill objectives
- Document errors, problems, and performance demonstration results

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# Drill-Specific Information

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# Scope

PARTICIPANTS	LEVEL OF PARTICIPATION
TA-03-1398 (SERF) Workers	Full
Emergency Operations Support Center (EOSC)	Limited: 1-2 Operators and several actions will be verbalized/simulated.
LANL Incident Response Commander (IRC)	Full
LANL Hazardous Materials (HAZMAT) Team	Limited: Group Supervisor and Safety Only
Los Alamos County Consolidated Dispatch Center (LAC CDC)	Limited: CDC play will be limited to dispatching LAFD.
Los Alamos Fire Department (LAFD)	Limited: 1 Battalion Chief, 1 Engine and 1 Medic
Emergency Management Division-Emergency Preparedness (EM-PREP)	Limited: Controllers only

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# Scenario

- The scenario is based on EMD-EPHA-507, R0, *EPHA for TA-03-1398 SERF*. The description of the event is a Hydrochloric Acid (HCL) spill/ loss of containment. The Scenario ID is TA-03-1398-RD-HCL-S-03 and results in an Isolation Zone of 30m and a Downwind Box of 339m.

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# Pre-existing Conditions

- The following conditions are applicable at the start of the drill:
  - Laboratory is under normal operations.
  - The facility is under normal operations.
  - SECON level 3 is in place.
  - Real MET conditions will be used throughout the entire duration of the drill.

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# Initiating Event

SERF Worker 1 is performing tubing replacement of the Hydrochloric Acid (HCL) chemical pump. SERF Worker 1 gets a second worker (SERF Worker 2) to watch as he goes into Room 105. Both workers don the required personal protective equipment (PPE) prior to SERF Worker 1's entry to perform the work. While inside Chemical Storage Room 105 at the HCL tank, SERF Worker 1 stumbles into the 2" PVC fill line breaking it loose causing the HCL to discharge from the line break through the observation window onto the chemical pad. SERF Worker 1 begins to evacuate upon seeing the release. SERF Worker 2 notices the broken line and begins evacuating. The HCL continues dispersing onto the floor (secondary container) with the majority of it dispersing onto the outside chemical pad through the observation window. The outside chemical pad fills up to about 50% of capacity from the spill. SERF Worker 1 exits Room 105 and is able to make it off of the chemical pad before falling ill to vapor exposure caused by the HCL release. SERF Worker 2 proceeds with evacuating as they are unable to carry SERF Worker 1 any further.

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# Purpose

- Implement protective actions
- Activate emergency resources
- Complete notifications/communications
- Account for personnel
- Categorize and/or classify an incident
- Rescue a contaminated patient
- Develop a HazMat Entry Plan
- Develop a HazMat Safety Plan

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# Design Guidelines

- Players are expected and required to participate in the drill.
  - If a participant declines to participate in the drill, then the controller should try to gain voluntary compliance by explaining the importance of their participation and ask why they are refusing/do not wish to participate.
    - If the individual decides to participate, then document the exchange and no further action is needed.
    - If the individual still refuses to participate, advise the drill director as soon as possible.
    - The drill director may decide to exempt the individual from participation (e.g., person is feeling sick and needs to go home) and will notify the controller of the decision.

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# Design Guidelines (cont'd)

- The drill director may decide that the individual must still participate in the drill and will notify the controller of the decision.
- The controller will notify the individual of the drill director's decision and politely ask for the individual's name and Z number.
- If the person continues to refuse, then let them go, and document the exchange, and note the location of the refusal.
- If individuals decline to participate, then this will be discussed during the hotwash, and the drill director will notify the appropriate Responsible Line Manager (if able to be identified) and the appropriate Facility Operations Director (FOD).

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# Pre-Approved Simulations

- **Protective Action Notifications:** The EOSC will not send out Protective Actions via the mass notification system for this drill. The EOSC players will run through the steps of issuing protective actions but will not transmit any messages via Everbridge. The EOSC will take screen shots of the Everbridge steps.
- **Operational Emergency (OE) Notification Form:** The EOSC will fill out the OE Notification Form and print out a hard copy to provide to the EOSC controller for credit. The OE form will not be sent out for this drill.
- **OE Verifications:** The EOSC will verbalize how they would make OE Notification Form Verifications to the EOSC controller. Verification calls will not actually be made for this drill.
- **911 Notifications:** The following number for 911 will be used during the drill: **661-3437**

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# Pre-Approved Simulations (cont.)

- **LANL Aware Messages:** The EOSC will not send out any LANL Aware messages for this drill. The EOSC will verbalize to the controller what they would include in the LANL Aware message for credit.
- **Worker 1 Injuries:** A patient card will be used to demonstrate the injuries sustained by worker 1. The patient card will be provided to the LAFD players from the LAFD Controller.
- **Patient Transport:** Patient transport to the Los Alamos Medical Center (LAMC) and any communications with LAMC will be simulated. In addition, any patient in the drill will be walked to the ambulance as opposed to being carried out by a stretcher.
- **EOC Activation:** If the playing IRC directs an EOC activation during the drill then the EOSC will run through the steps of activating the EOC in Everbridge but will not send out the message. The EOSC controller will grant credit for the action once the EOSC has finished walking through the steps.

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# Pre-Approved Simulations (cont.)

- **Protective Force:** Protective Force is not playing in this drill. All actions that would be conducted by the Protective Force will be simulated. Road closures will be simulated.
- **LAFD SCBA:** LAFD will don all PPE with the exception of going on air if using an SCBA.
- **SERF Workers Respirators:** SERF Workers will wear all PPE with the exception of the respirator (SERF workers will carry the respirators with them but will not use them for the drill).
- **Lights and Sirens:** Responders will not use lights and sirens when responding for this drill. Emergency lights may be activated upon arriving on scene.
- **Notifications to Non-Drill Players:** All notifications to entities that are not playing in the drill will be simulated. Note: The SERF Operations Manager is a Controller for the facility and the worker may verbalize the actions he/she would take to the SERF Controller if making a notification to the SERF Operations Manager.

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# Pre-Approved Simulations (cont.)

- **Alarms:** All alarms that could activate as a result of the initiating event will not be activated and will be simulated via injects from Controllers (e.g., players will simulate pulling the fire alarm if they would do so during this type of emergency, HCl alarms, etc.).
- **Hoselines:** If LAFD decides to deploy hoselines or spray water, this will be simulated and the actions will be verbalized to the Controller instead.
- **HazMat Entry:** There are not any HazMat entry personnel playing in the drill. Entry mitigation efforts will be simulated.
- **Field Monitoring Team:** If the FMT is requested during the drill, their actions will be simulated as they are not playing in the drill.
- **Hydrochloric Acid Spill:** The HCL spill will be simulated with water and dry ice on the chemical pad to give responders a visual when they arrive on scene.
- **Pre-Staging of SERF Workers:** SERF Workers will be pre-staged at the initiating event location.

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# Termination Conditions

- The drill may be terminated with Drill Director approval when the following conditions have been met:
  - All venues have had the opportunity to practice/train on focus areas.

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# Drill Safety & Security

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# Drill Safety

Hazard	Mitigation Measures
Slips, trips, and falls	Drill participants will use caution and be observant while moving in areas of potential concern. Wear flat comfortable shoes with rubber soles. If you are located at an indoor venue, be cautious of chairs, tables, cords and other tripping hazards.
Environment	Dress in layers. This geographical region is unpredictable and you'll be outside. Wear long pants, sturdy shoes, long-sleeved shirt and a jacket. Wear personal protective equipment (e.g., safety shoes and safety glasses) where required. [Wear a hat to prevent sunburns.] [Wear a hat, gloves, and warm socks.]
Emergency Apparatus	Watch for moving response vehicles in the drill play area. Keep a safe distance away from any moving vehicle. Ensure the driver sees you before you make any movements near vehicles.

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# Drill Safety (cont.)

- If any drill participant, including an observer, witnesses an unsafe action, they are to immediately suspend drill play by loudly stating “Drill Freeze.”
  - Ensure the nearest controller is made aware of the reason for the Freeze.
  - The controller will report the Freeze and the reason to the DD.
- Each participant is personally responsible for their own individual safety.
- All personnel will observe all safety and hazard postings.

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# Drill Safety (cont.)

- All safety and security envelopes are in place, unless instructed otherwise, and any deviation to these boundaries have been documented and approved by the appropriate organizational management.
- All postings will be obeyed.
- Required personal protective equipment will be worn while in the facility.
- Facility escort requirements will be observed.
- All LANL COVID safety protocols will be followed.
- Be alert for all alarms, public address announcements, and notifications indicating an actual incident.

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# Drill Security

- All drill participants will wear their LANL-issued badge above the waist and visible outside any drill vests
- Unauthorized prohibited articles on Laboratory property may be confiscated by the Protective Force or the Los Alamos Police Department
  - Personal cell phones (Not Allowed in Designated Area's)
  - Pocket, hunting, or other sharp knives with blades longer than 2.5 inches.

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# Schedule of Events

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# Schedule of Events

Activity	Date	Time	Location
Controller Briefing	11/8/2021	1000	TA-03-1398 (SERF)
Player/Observer Briefing	By 11/9/2021	0900	Email/Fire Station 1
Controllers In Place	11/9/2021	0900	At their assigned venues
Controller Communication and Safety Check	11/9/2021	0915	At their assigned venues
Drill Start	11/9/2021	1000	TA-03-1398 (SERF)
Drill Termination	11/9/2021	1130	TA-03-1398 (SERF)
Drill Hotwash	11/9/2021	1145	TA-03-1398 (SERF)

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# MSEL REVIEW

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# What's Next?

- Pick-up your Controller clipboards, vests, and radios.
- Conduct facility walk-downs, as needed.
- Review plans, procedures, and checklists for your assigned area.
- Review the drill plan and MSEL.

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# Questions?



POCs: Lance Fresquez, 505-695-6166 and  
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